MariTeam

Mullion

SERVICE MANUAL

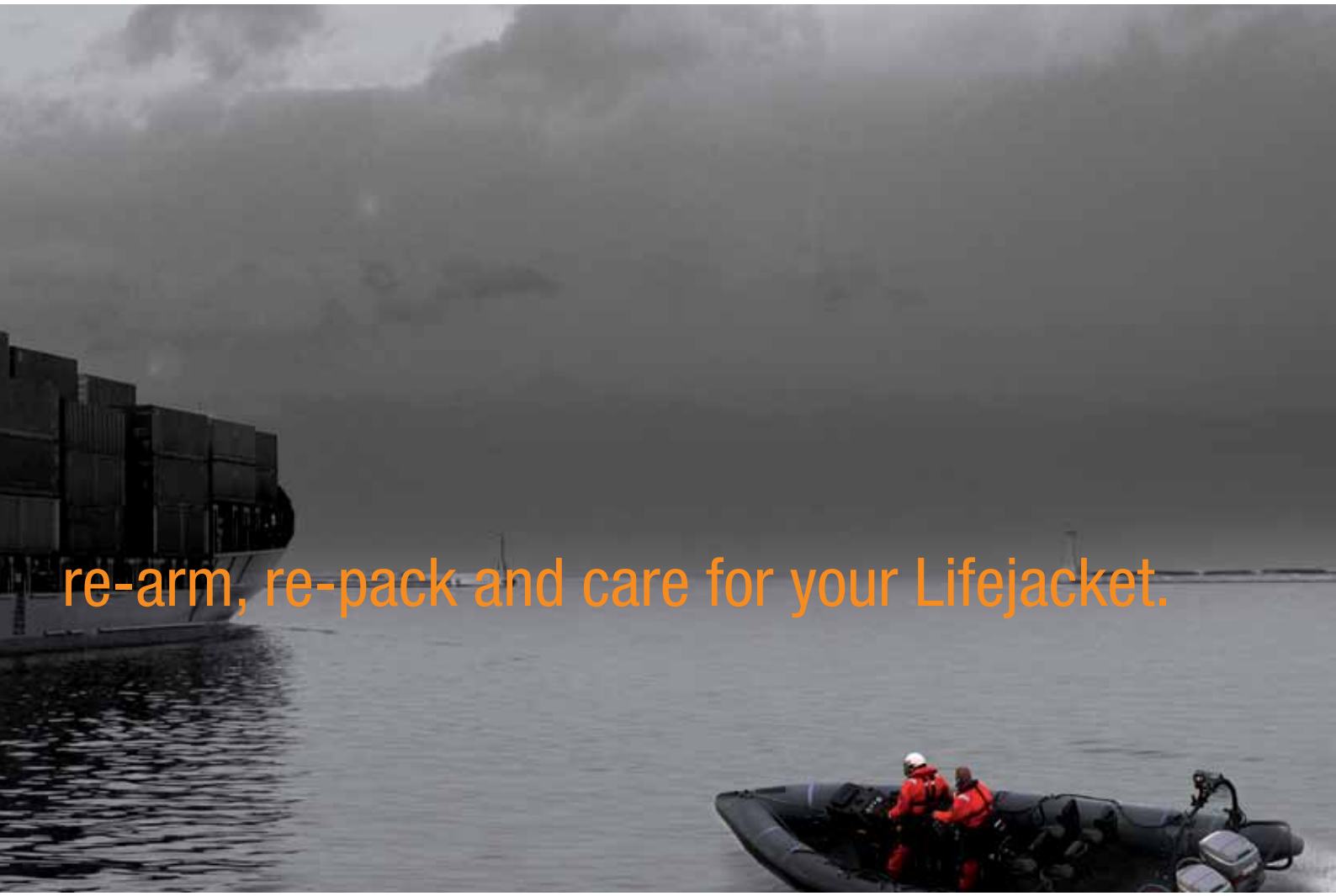
Mullion mariner 275N
dot twin chamber lifejacket
with Hammar hydrostatic mechanism.

1.0 Maintenance schedule.

Only a responsible officer may perform the checks mentioned herein. All checks shall be recorded in an appropriate log - book. The records shall include the lifejacket serial number, date of check, and the last date of service (if applicable/ available).

2.0 Servicing/maintenance procedure at periods not exceeding 12 months!!

- The lifejacket should be visually inspected as per inspection check- list and the service requirements recorded.
- At 12 monthly intervals, or immediately if the lifejacket has been inflated or immersed in water, or load applied to harness/belt.



3.0 check list.

The following parts / areas should be checked:

- General materials / webbings / buckles / crutch-strap
- General stitching
- Rip & velcro fastenings
- Reflective tapes
- Automatic emergency light
- Whistle
- Automatic firing mechanisms
- Co2 gas cylinders
- Oral inflation tubes / valves + full lifejacket inflation

04. Service check procedure.

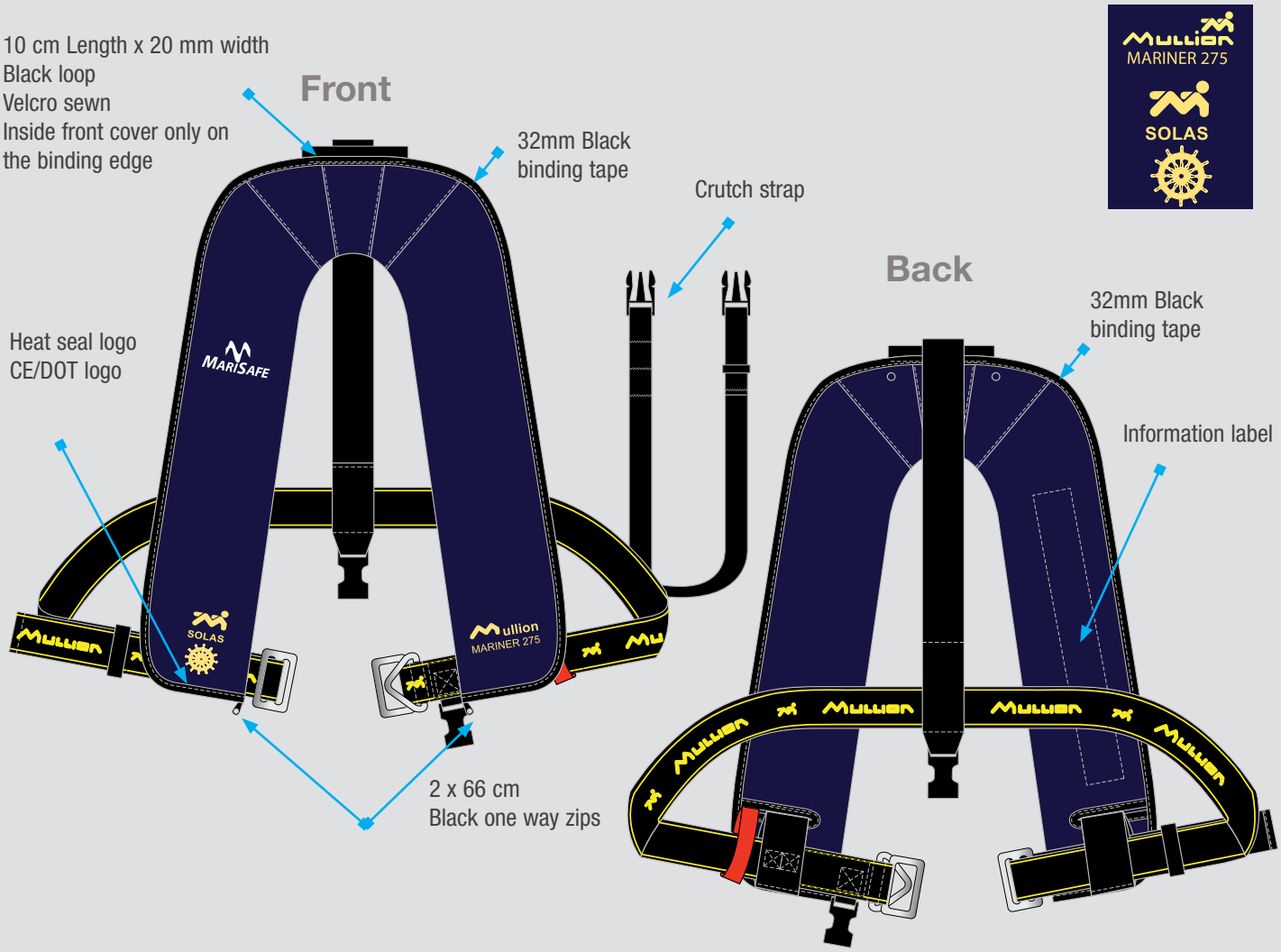
4.1 General check

- Check that the lifejacket stole and cover match exactly the diagrams as attached and that all component parts are present.

- Check for damage / tears to all materials / component parts / trim & accessories.
  Any defects return to distributor / factory for service
  Missing / defective crutch-straps can be replaced on board with new parts supplied by Mariteam.

Mullion Mariner 275N dot twin chamber lifejacket with hammar hydrostatic mechanisms

Mullion Mariner 275N
Solas approved cover



4.2 General stitching

- Check all stitching are intact and secure.
  If any defects are observed – discard the lifejacket or return for service

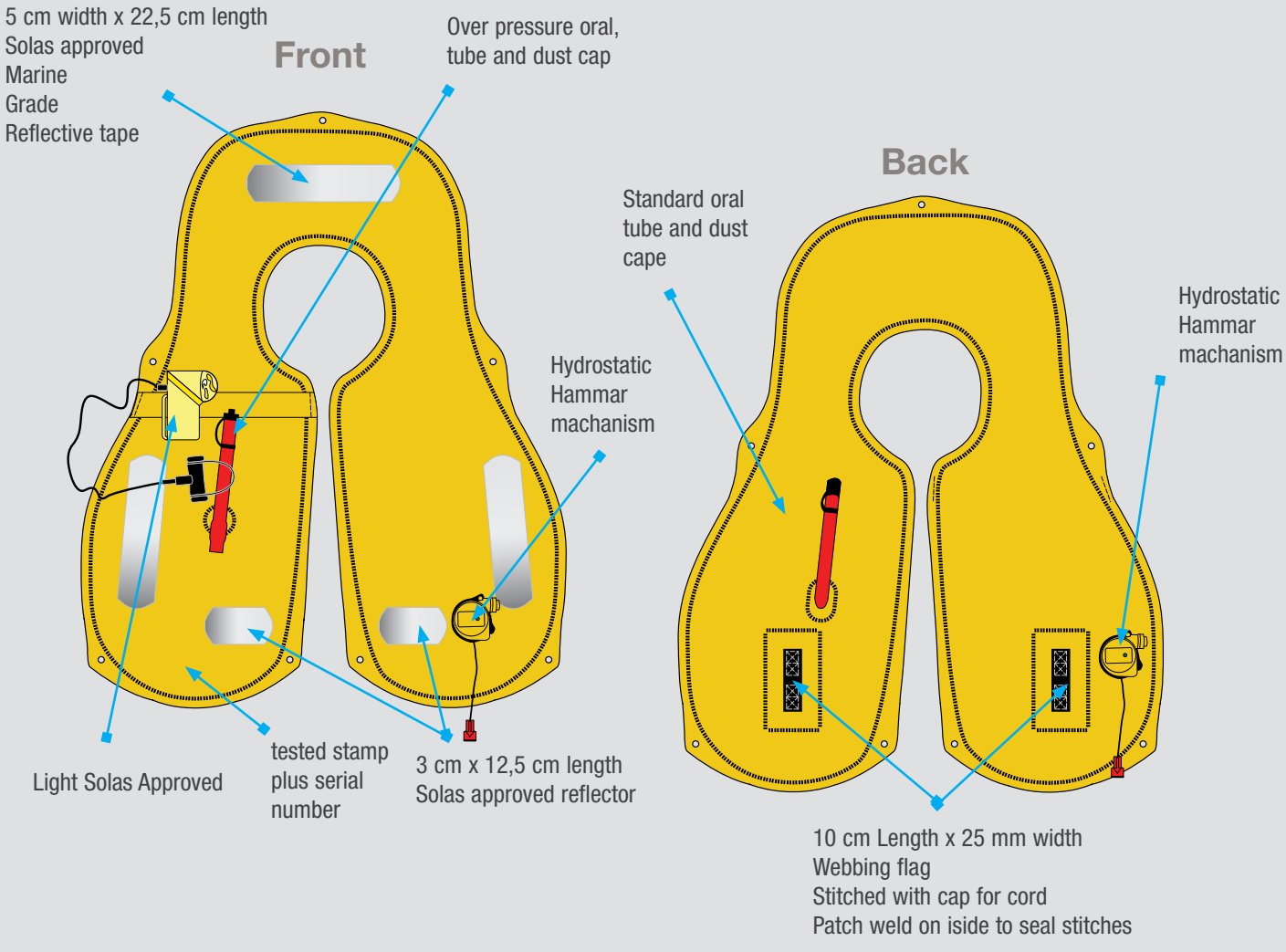
4.3 Zips & velcro fastenings

- Check all zips and velcro fastenings are intact and secure.
  If any defects are observed – discard the lifejacket or return for service

4.4 Reflective tape

- Check all reflective tapes are in tact and adhered securely to the inflatable chambers.
  Any defects – replace with new reflective tapes supplied by Mariteam

Mullion Mariner 275N
Solas approved Bladder/Stole



4.5 Automatic emergency light

- Check light function by switching on manually & / or immersing in water and ensure light is securely fastened to inflatable chambers

Any defects – replace with new light supplied by Mariteam

Automatic emergency light

4.6 Whistle

- Check whistle is securely fastened to inflatable chambers and is functional

Any defects – replace with new whistle supplied by Mariteam

Whistle

4.7 Automatic firing mechanism

- Check date of mechanism has not expired
- Check that the mechanism window is not showing red
- Check that the manual pull handle has not been removed or partially pulled
- Check there is no damage to the mechanism body and back assembly

If any one of the above are found to not conform
Remove and refit mechanism by following hammar instructions as attached: reference diagram

Automatic firing mechanism

4.8 Co2 gas cylinders

To check the cylinder, the hammar mechanism must first be removed as per the instruction attached and then unscrewed from the Hammar back assembly

1. Check the cylinder is not pierced or damaged in any way
2. Check the cylinder is not corroded
3. The cylinder is less than 10 years old

If any of these defects are found the cylinder must be replaced immediately and the old one discarded / disposed of (parts supplied by Mariteam).

Co2 gas cylinder

4.9 Oral inflation tubes/valves & full lifejacket inflation

To check this a full inflation test is required as follows:

- Check that both front and back oral tubes are intact, undamaged and black dust caps are fitted
- With compressed air equipment or a manometer and through the standard oral tube on the back of the inflatable chambers, inflate the rear chamber to 0.5 p.s.i. or 3.5 k.p.a.
- With the same equipment inflated the front chamber through the front oral tube with over pressure valve until the over pressure valve “blows off”
- Leave the lifejacket inflatable chambers, inflated for a minimum of 12 hours
- Check the inflatable chambers after 12 hours – if they are still at full pressure they can be deflated by depressing each valve in the oral inflation tubes at front and back and pressing down on the bladder to expel the air

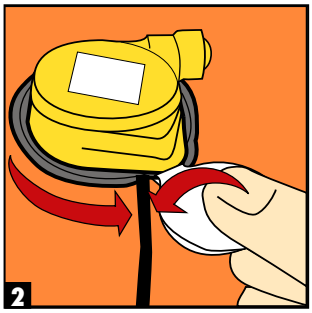
If the inflatable chambers have deflated in any way after 12 hours the inflatable chambers must be rejected and returned to the manufacturer for an interchangeable replacement

2010-01

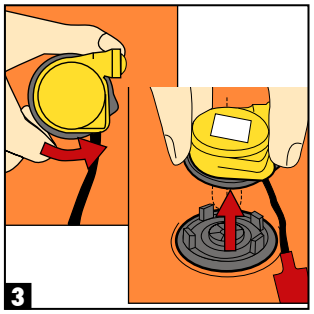
THE HAMMAR LIFEJACKET INFLATOR

REARMING INSTRUCTION

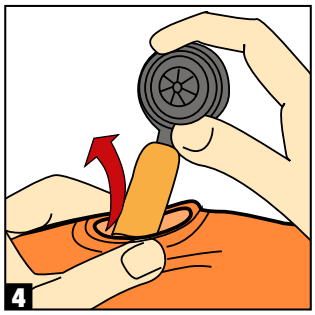
1.
Place the lifejacket (PFD = Personal Floating Device) on a flat smooth surface and wipe off any water. Hold the gas cylinder through the fabric using one hand.



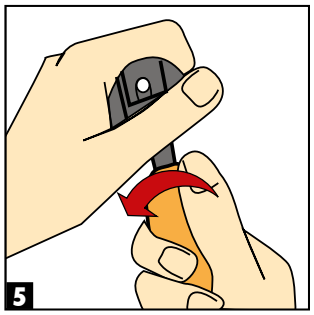
2.
Insert metal key and turn the key anti-clockwise between black locking ring and labelled yellow cap. The black locking ring will now turn anti-clockwise



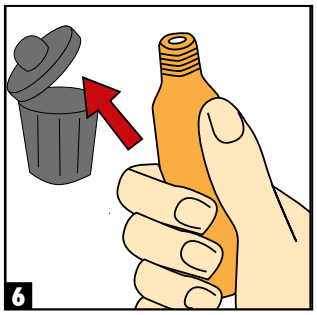
3.
Now turn black locking ring anti-clockwise and lift off cap (cap = yellow inflator operating head). Dispose used cap.



4.
Squeeze sealing ring to elongate and remove the inflator body through the sealing ring.



5.
Unscrew the gas cylinder.
Note: If hard to unscrew, hold the black inner body with a soft tissue/clothing and hold the cylinder with a pipe pliers or other holding tool.

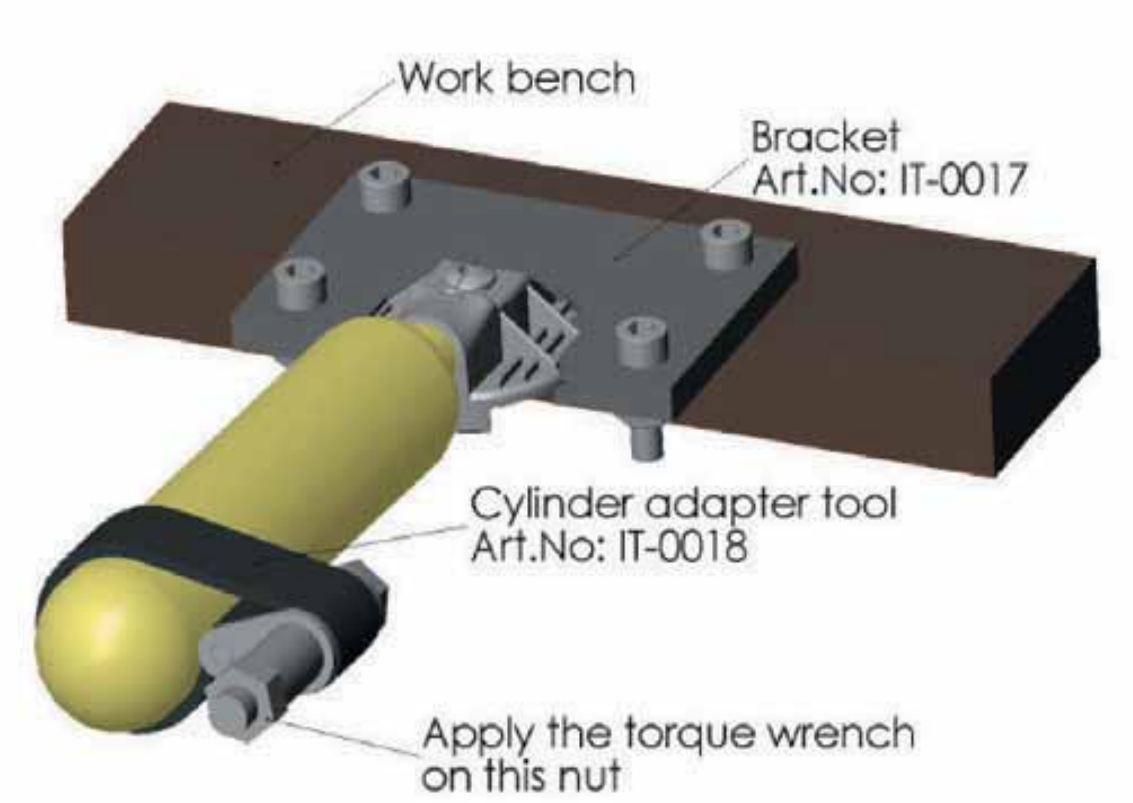


6.
Dispose of used gas cylinder in an nvironmentally approved manner.

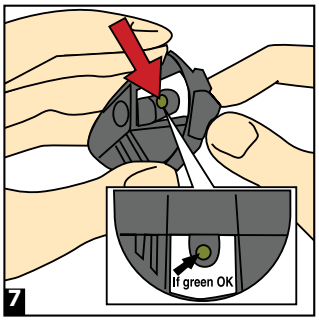
Recharge Instructions standard model 1 (2) ▶▶

HAMMAR® BETTER SOLUTIONS FOR SAFETY AT SEA

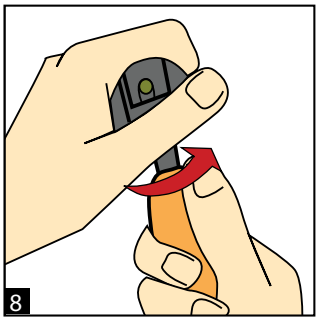
Instructions for Torque tightening of gas cylinder on the Hammar inflator

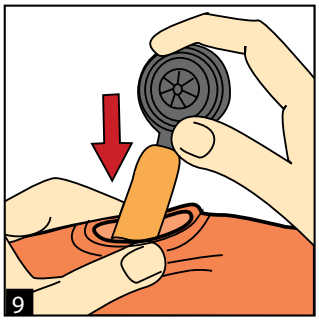


1. Screw the cylinder into the body and tighten it by hand.
2. Carefully slide the body into the bracket.
3. Put on the cylinder adapter tool on to the cylinder.
4. Apply the torque wrench on to nut on the cylinder adapter tool and tighten the cylinder to a torque of not more than 10Nm.



Note: Before continuing with steps 8-12 please refer to page 9 of this service manual!

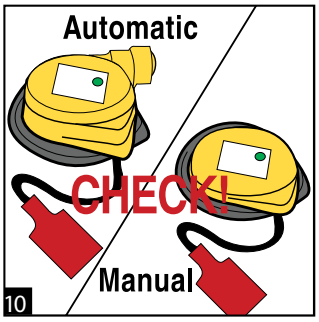


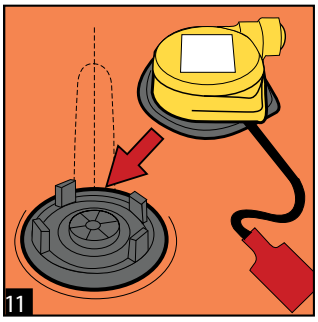


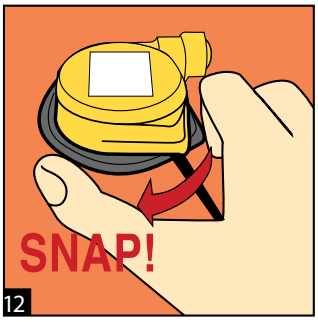
7.
Reset the piercing pin by rotating the shaft in the inner body to a position where the underside monitor with eyelet surrounds the green dot in the centre of the indicator.

8.
Carefully examine the top of the new gas cylinder to make sure that it is not punctured. The cylinder must be VERY FIRMLY TIGHTENED into the black inner body. The black inner body should be checked for any damage or splitting following this tightening.

9.
Insert new inflator body with gas cylinder pointing upward inside the lifejacket (PFD). Let the sealing ring est in the inflator body around the four lugs.







10.
Now check the automatic/manual cap as follows:

Manual/Automatic:
- Check that the single point indicator is green
- Check that expiry date is within the limit.
- Check that red handle is attached.

Manual:
- Check that red handle is attached.

If YES is the answer to ALL these questions, then proceed to item 11:

11.
Hold the gas cylinder through the life jacket fabric. Take the replacement cap with the pull tab pointing in the opposite direction to the gas bottle (i.e. Down) and press it FIRMLY onto the inflator body and sealing ring.

12.
While pressing firmly onto the inflator body turn the black locking ring clockwise into the locked position. Pull the cap to make sure it has locked onto the inflator body.
NOTE: When the inflator is in its final closed position, the gas cylinder, the side of the yellow cap and the pull handle are in parallell.

5 General maintenance & cleaning

5.1 If any part of the lifejacket has been in contact with salt water or other contaminants such as oil, paint thinner it shall be sponged off immediately with a mild soap solution. Rinsed with clean fresh water and hung to dry.

Do not immerse in water as this will activate the firing mechanism
Do not use harsh cleaning agents / chemicals / dry cleaning fluids
Do not place on direct heat to dry

5.2 Co2 gas cylinders after use / contact with salt water can be cleaned by wiping with a cloth soaked in clean fresh water and then dried immediately afterwards (to prevent corrosion) with a clean dry absorbent cloth

6 Re-packing the lifejacket

6.1 Follow lifejacket packing procedure.

Once both the bladder and cover have been finally checked, the bladder is packed into the cover using the method explained below and visually depicted in the packing procedure illustrations.

STEP 1 Shows a general bladder/ stole. The cover is laid front facing upwards on a flat surface, with fastenings open. The bladder front facing upwards is inserted into the cover (through the harness loop at the top of the cover if present) and tied into position using the harness bladder attachment cord or buckles.

STEP 2 The bladder top is folded in a concertina method, allowing the top of the bladder to unfold easily when deployed and the harness loop is folded once over the concertina bladder top and the velcro at the very top of the cover is fastened closed. The zip heads are pulled up with the bladder inside to the very top of the cover underneath the velcro and left in this position whilst packing the rest of the bladder.

STEP 3 Fold the right outer side of the bladder underneath, and clear of the mechanism.

STEP 4 Fold the inner right side of the bladder underneath away from the mechanism.

STEP 5 Fold the bottom of the bladder underneath away from the mechanism. Whilst holding the folded lobe pull the zip head down to fasten that side of the cover closed. Ensure that the mechanism pull cord/ pull handle is clearly visible and usable outside the cover and can not slip back into the cover.

STEP 6 Fold the inner side of the left lobe over

STEP 7 Fold the outer side of the left bladder lobe over

STEP 8 Fold the bottom of the bladder over away from the mechanism. Whilst holding the folded lobe pull the zip head down to fasten that side of the cover closed. Ensure that the mechanism pull cord/ pull handle is clearly visible and usable outside the cover and can not slip back into the cover.

By using this folding method and fastening the buckles on the waist belt and crutch strap correctly the bladder should work efficiently and open correctly when deployed.

Correct lifejacket packing procedure

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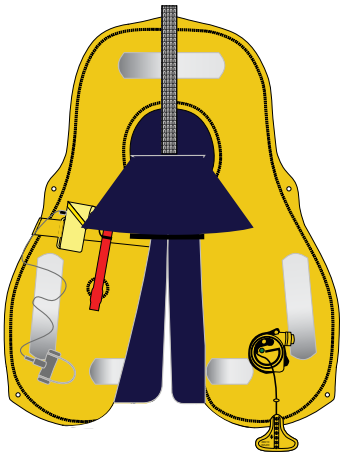

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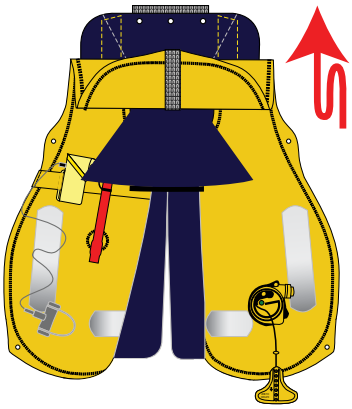

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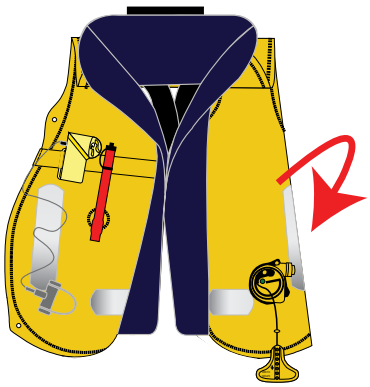

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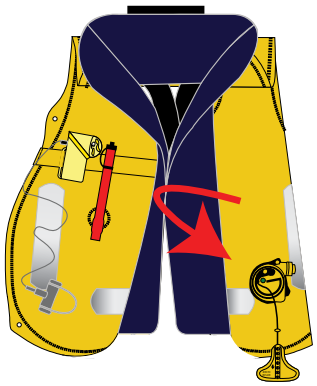

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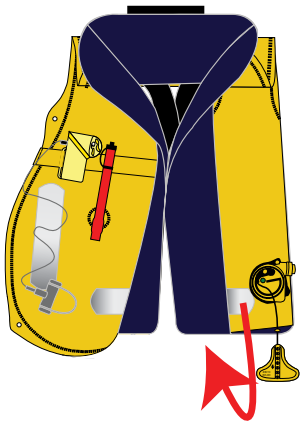

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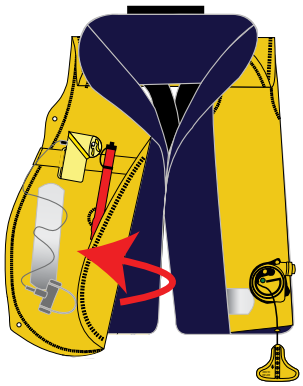

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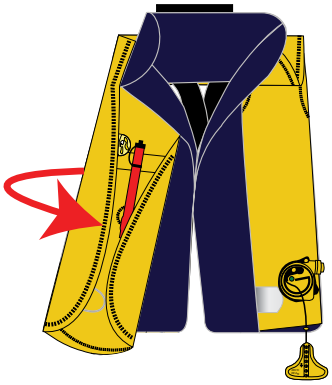

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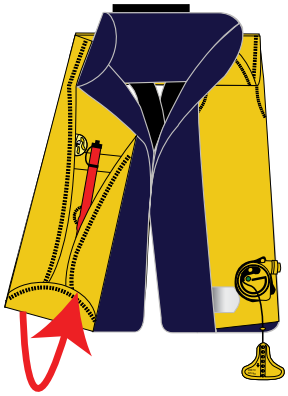

7 Storage

when not in use the lifejacket should be stored in a well ventilated room, not subject to extremes in temperature, extended periods of bright sun light, hydro carbon fumes, oils creases or concentrated ozone. The storage conditions must not be damp or extremely humid. the lifejacket must always be dry prior to placing in storage. Lifejackets held in store must be laid flat or hung from the neck aperture by suitable means. Prior to issue from store a visual inspection must be performed. A damaged lifejacket must be subject to the service / maintenance procedure before being issued for use or returned to the store. Providing the storage conditions are satisfactory the lifejacket may remain stored between service/ maintenance periods.

8 Spare parts list

Description: Solas auto light aquaspec AQO2U
Mullion part nr.: LLI00000M

Description: 60gr cylinder
Mullion part nr.: LCY030000

Description: Hammar auto front
Mullion part nr.: LIN01F000

Description: Whistle
Mullion part nr.: LWH030C10

Description: Hammar back
Mullion part nr.: LIN01B000

Description:Solas reflectors self-adhesive
Mullion part nr.: NR IRFQ50MOR 12CM
Mullion part nr.: IRFQ50MOR 22CM

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